

Recovery Plan Action Status

Plan Name: Recovery Plan for *Serianthes nelsonii*

Plan Status: Final

Plan Date: 02-Feb-94

Lead Agency: USFWS

Lead Office: Pacific Islands Fish And Wildlife Office
(808)
792-9400)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Hayun lagu (=Guam), Tronkon guafi (Rota)) (<i>Serianthes nelsonii</i>)	1	111	Secure current sites: Confirm ownership and negotiate coop agreement for Rota subpop's 10, 12 & 13	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include the sabana habitat of this species.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (<i>Serianthes nelsonii</i>)	2	1110	Manage current sites: Determine need for wildfire control on Rota	Not Started			Commonwealth of the Northern Mariana Islands	Management: Habitat Maintenance and Manipulation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include fire management for this species' sabana habitat, if needed.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (<i>Serianthes nelsonii</i>)	2	1111	Manage current sites: Tag and monitor all individuals on Rota	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (<i>Serianthes nelsonii</i>)	2	1112	Manage current sites: Develop additional management techniques for Rota, as needed	Not Started			Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	This task has not been started because it has not yet been needed.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (<i>Serianthes nelsonii</i>)	1	112	Secure current sites: Negotiate coop agreement with CNMI for Rota subpop's 2-9, 11 and 14 - 16	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include the sabana habitat of this species.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (<i>Serianthes nelsonii</i>)	1	113	Secure current sites: Negotiate coop agreement with Rota subpop. 1 landowners Diego Mediola and Jack Taitano	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division, Private landowners	Acquisition: Management Agreement	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include the sabana habitat of this species.

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Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1141	Manage current sites: Determine areas to fence on Rota	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands	Management: Habitat Maintenance and Manipulation, Management: Planning, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include fencing some areas of this species' sabana habitat.
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1142	Manage current sites: Fence subpopulations on CNMI land	Not Started			Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include fencing some areas of this species' sabana habitat.
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1143	Manage current sites: Fence subpop's owned by Diego Mediola and Jack Taitano	Not Started			Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include fencing some areas of this species' sabana habitat.
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1144	Manage current sites: Fence subpop's owned by others	Not Started			Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include fencing some areas of this species' sabana habitat.
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1145	Manage current sites: Maintain fences on Rota	Not Started			Commonwealth of the Northern Mariana Islands	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	This task has not started because the fences have not yet been constructed.
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	115	Manage current sites: Prevent clearing near remaining trees on Rota	Not Started			Commonwealth of the Northern Mariana Islands	Management: Habitat Maintenance and Manipulation	Contract, Graduate Student, Internal Field Assistance, Volunteer	Currently, ES is working with NMI to develop a Habitat Conservation Plan for Rota that would include maintaining some areas of this species' sabana habitat.

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Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	1	116	Manage current sites: Control insect pests on Rota	Discontinued	FY 1995 - FY 1999		Commonwealth of the Northern Mariana Islands	Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Termites were observed and treated in 1997 and have not been seen since.
Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	2	117	Manage current sites: Remove strangler figs on Rota trees	Not Started			Commonwealth of the Northern Mariana Islands	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	
Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	2	118	Manage current sites: Cross-fertilize Rota trees	Not Started			Commonwealth of the Northern Mariana Islands	Management: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	2	119	Manage current sites: Consider application of fertilizer to Rota trees	Not Started			Commonwealth of the Northern Mariana Islands	Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	1	121	Secure current sites: Continue negotiations for coop agreement with AAFB for Guam trees	Partially Complete	Prior to FY 1995		University of Guam, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division, Guam National Wildlife Refuge, United States Air Force	Acquisition: Management Agreement	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	One individual is on NWR lands, but the individual on AAFB is not yet protected.
Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	2	1210	Manage current sites: Tag and monitor all individuals on Guam	Ongoing Not Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge, United States Air Force	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	

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Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	1211	Manage current sites: Develop additional management techniques for Guam, as needed	Not Started			University of Guam, Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division, Guam National Wildlife Refuge	Management: General	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	This task has not been started because it has not yet been needed.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	122	Secure current sites: Consider coop agreement with Gov. of Guam for Tarzan River Valley site	Discontinued	Prior to FY 1995		Territory of Guam, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: General	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Because the seedlings at this site did not survive, this task has been abandoned.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1231	Manage current sites: Fence trees on AAFB	Partially Complete	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, United States Air Force	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	The individual on AAFB has been fenced, but as of July 2004, was not adequately maintained.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	1232	Manage current sites: Maintain fences on Guam	Ongoing Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Guam National Wildlife Refuge, United States Air Force	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	Fence was most recently maintained in 2005.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	124	Manage current sites: Prevent clearing near remaining trees on Guam	Ongoing Not Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Guam National Wildlife Refuge, United States Air Force	Management: Habitat Maintenance and Manipulation	Contract, Graduate Student, Internal Field Assistance, Volunteer	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	1	125	Manage current sites: Control insect pests on Guam	Ongoing Not Current	Prior to FY 1995		Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge, United States Air Force	Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	126	Manage current sites: Remove strangler figs on Guam trees	Unknown			Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge, United States Air Force	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Volunteer	

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Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	127	Manage current sites: Cross-fertilize Guam trees	Not Started			University of Guam, Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge, United States Air Force	Management: Propagation, Research: Management Techniques, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	128	Manage current sites: Consider application of fertilizer to Guam trees	Ongoing Not Current	FY 1995 - FY 1999		University of Guam, Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge, United States Air Force	Management: Habitat Maintenance and Manipulation, Management: Propagation, Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance, Volunteer	Fertilizer was applied to one sapling and one seedling on Guam, but only one survived. No detailed data are available on the results.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	129	Manage current sites: Determine need for wildfire control on Guam	Not Started			Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge, United States Air Force	Management: Habitat Maintenance and Manipulation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	131	Manage current sites: Continue surveys for new trees on Rota	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	132	Manage current sites: Survey for new trees on Guam	Ongoing Not Current	Prior to FY 1995		Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources, Guam National Wildlife Refuge	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	133	Manage current sites: Include new populations in management actions	Not Started			Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division, Guam National Wildlife Refuge	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Not started because none have been found.

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Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	14	Manage current sites: Create a public education and involvement program	Ongoing Not Current	FY 2000 - FY 2004		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, Guam Division of Forestry and Soil Resources	Other: Information and Education	Contract, Graduate Student, Internal Administrative, Internal Technical Assistance, Species Expert	A flier was produced and distributed by the University of Guam Agricultural Experiment Station in 2000.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	21	Study ecology	Ongoing Not Current	Prior to FY 1995		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Geological Survey, Biological Resources Division	Research: Competition, Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	221	Study abundance and ecology of insect pests	Partially Complete	FY 1995 - FY 1999		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Geological Survey, Biological Resources Division	Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	UG found a caterpillar and a scale-like insect on nursery and wild seedlings and determined a control method.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	222	Study seed predation by insects	Ongoing Not Current	FY 2009		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Geological Survey, Biological Resources Division	Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Guam NWR is working with U of Guam to identify and control root mealy bug.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	223	Determine methods to control seed predation by insects	Ongoing Not Current	FY 2009		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources	Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Guam NWR is working with U of Guam to identify and control root mealy bug.

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Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	224	Study control of mealybugs by parasitoids	Ongoing Not Current	FY 2009		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Geological Survey, Biological Resources Division	Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Guam NWR is working with U of Guam to identify and control root mealy bug.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	225	Study control of ants attending mealybugs	Ongoing Not Current	FY 2009		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Geological Survey, Biological Resources Division	Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Guam NWR is working with U of Guam to identify and control root mealy bug.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	23	Study threat of inbreeding suppression	Ongoing Not Current	FY 1995 - FY 1999		Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Research: Demographic Studies, Research: Genetics	Contract, Graduate Student, Internal Technical Assistance, Species Expert	Seed germination rates of Rota vs. Guam seeds indicate that there is some loss of fitness in the Guam seeds, but genetic studies have not been conducted.
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	24	If necessary, study causes and effects of branch pruning	Not Started			Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Research: Demographic Studies, Research: Population Surveys, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	25	Study habitat requirements	Ongoing Not Current	Prior to FY 1995		University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Geological Survey, Biological Resources Division	Research: Habitat Requirements, Research: Habitat Status	Contract, Graduate Student, Internal Field Assistance, Species Expert	

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Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	31	Determine populations to augment	Complete	Prior to FY 1995	FY 2000 - FY 2004	Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	All populations should be augmented except for perhaps Gayaugan subpopulation #7, which contained 36 adults individuals in 1992. Current status is unclear.
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	32	Determine appropriate augmentation techniques	Complete	Prior to FY 1995	FY 1995 - FY 1999	University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, Waimea Arboretum and Botanical Garden, Guam National Wildlife Refuge	Management: Propagation, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	331	Augment Guam populations: Select genetic stock for augmentation on Guam	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division, Guam National Wildlife Refuge	Management: Propagation, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	332	Augment Guam populations: Identify areas to augment on Guam	Ongoing Not Current	Prior to FY 1995		Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	333	Augment Guam populations: Propagate plants for Guam	Ongoing Not Current	Prior to FY 1995		Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division, Guam National Wildlife Refuge, United States Air Force	Management: Propagation, Management: Reintroduction	Contract, Graduate Student, Internal Technical Assistance, Species Expert, Volunteer	

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Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	334	Augment Guam populations: Transplant to Guam sites	Ongoing Not Current	Prior to FY 1995		Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division, Guam National Wildlife Refuge, United States Air Force	Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	341	Augment Rota populations: Select genetic stock for augmentation on Rota	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Management: Planning, Management: Propagation, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	342	Augment Rota populations: Identify areas to augment on Rota	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Propagation, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	343	Augment Rota populations: Propagate plants for Rota	Ongoing Not Current	Prior to FY 1995		Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Propagation, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	344	Augment Rota populations: Transplant to Rota sites	Ongoing Not Current	Prior to FY 1995		Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	41	Locate suitable introduction sites	Ongoing Current	FY 2006		Commonwealth of the Northern Mariana Islands, Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning, Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	

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Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	42	Secure new sites	Not Started			Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Work type not yet selected	Labor type not yet selected	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	43	Fence new sites	Not Started			Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Volunteer	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	44	Control insects at new sites	Not Started			University of Guam, Guam Division of Aquatic & Wildlife Resources	Management: Predator and Competitor Control	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	45	Control the threat of fire	Not Started			Guam Division of Forestry and Soil Resources	Management: Habitat Maintenance and Manipulation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	46	Select genetic stock for reintroduction	Ongoing Current	FY 2006		Guam Division of Aquatic & Wildlife Resources, U.S. Geological Survey, Biological Resources Division	Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=(Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	2	47	Introduce to new areas	Ongoing Current	FY 2006		Guam Division of Forestry and Soil Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	

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Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	3	51	Determine # of populations needed for long term survival	Not Started			University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Other: Regulations, Research: Competition, Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Hayun lagu (=Guam), Tronkon guafi (Rota) (Serianthes nelsonii)	3	52	Determine # of individuals needed for long term survival	Not Started			University of Guam, Commonwealth of the Northern Mariana Islands, Guam Division of Aquatic & Wildlife Resources, U.S. Fish and Wildlife Service, Endangered Species Division	Other: Regulations, Research: Competition, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	

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Hayun lagu (=Guam), Tronkon guafi (Rota)) (Serianthes nelsonii)	3	53	Revise recovery objectives	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division	Other: Regulations, Research: Competition, Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	